

Figure 1

SP 0	SP 4	C 8	C 12	C 16	C 20	C 24	C 28
R 1	SP 5	C 9	C 13	C 17	C 21	C 25	C 29
R 2	SP 6	SP 10	SP 14	SP 18	C 22	C 26	C 30
SP 3	SP 7	R 11	R 15	SP 19	C 23	C 27	C 31
C 32	SP 36	SP 40	SP 44	SP 48	C 52	C 56	C 60
C 33	C 37	C 41	C 45	C 49	C 53	C 57	C 61
C 34	C 38	C 42	C 46	C 50	C 54	C 58	C 62
C 25	C 39	C 43	C 47	C 51	C 55	C 59	C 63

Figure 2A

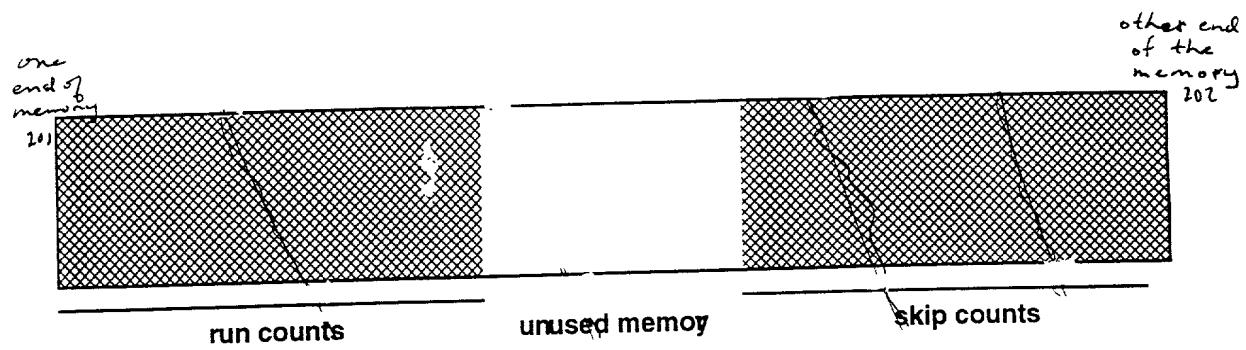


Figure 2B

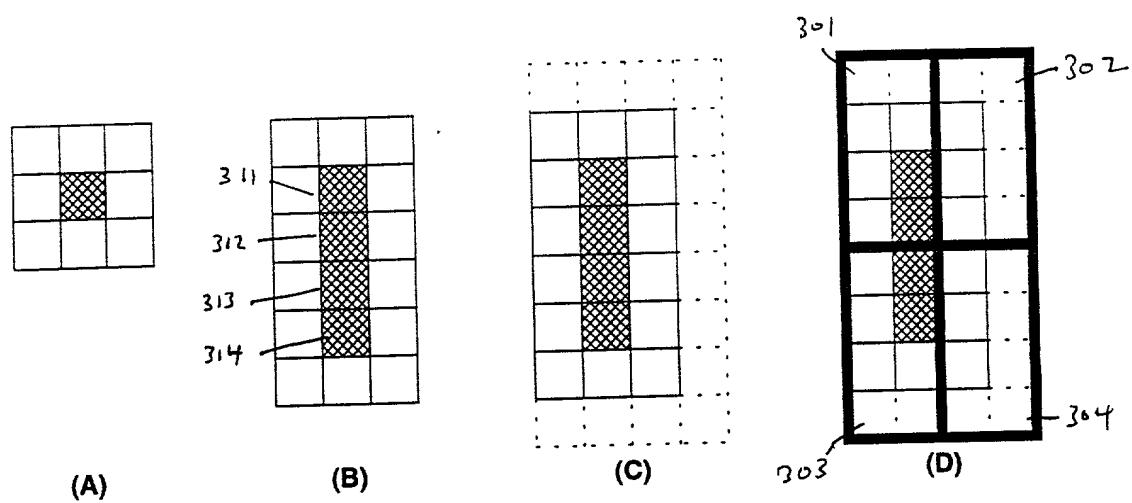


Figure 3

0	1	2	3	4	5	6	7	
0	A	B	A	B	A	B	A	B
1	C	D	C	D	C	D	C	D
2	A	B	A	B	A	B	A	B
3	C	D	C	D	C	D	C	D
0	A	B	A	B	A	B	A	B

Figure 4

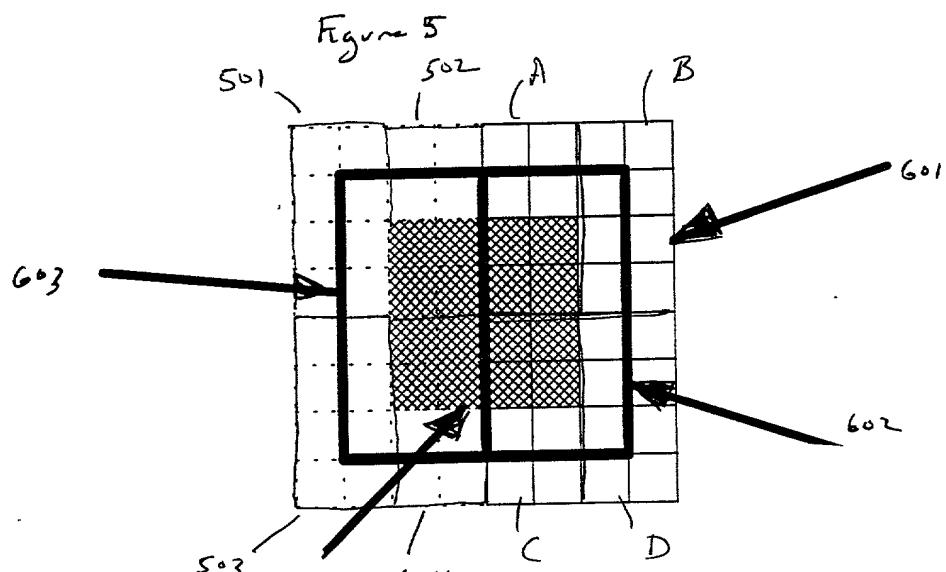
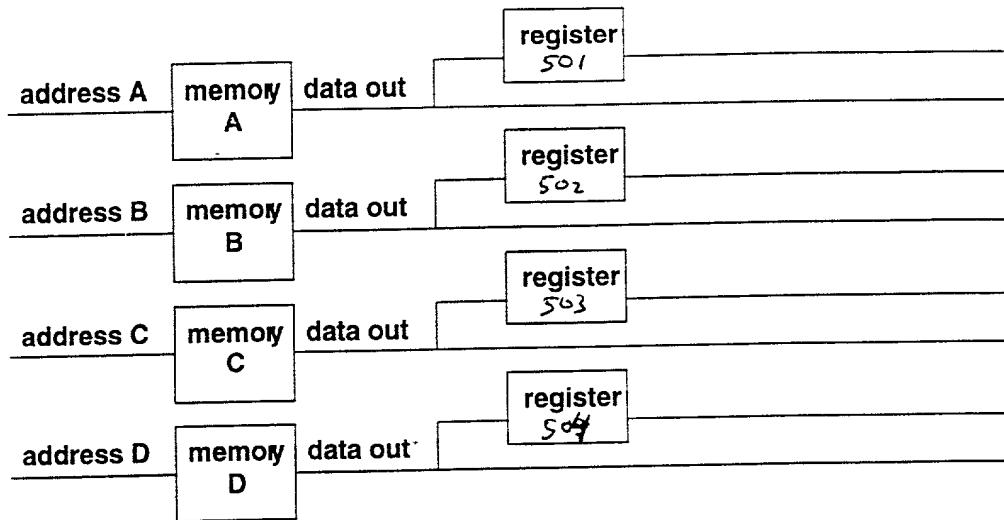


Figure 6

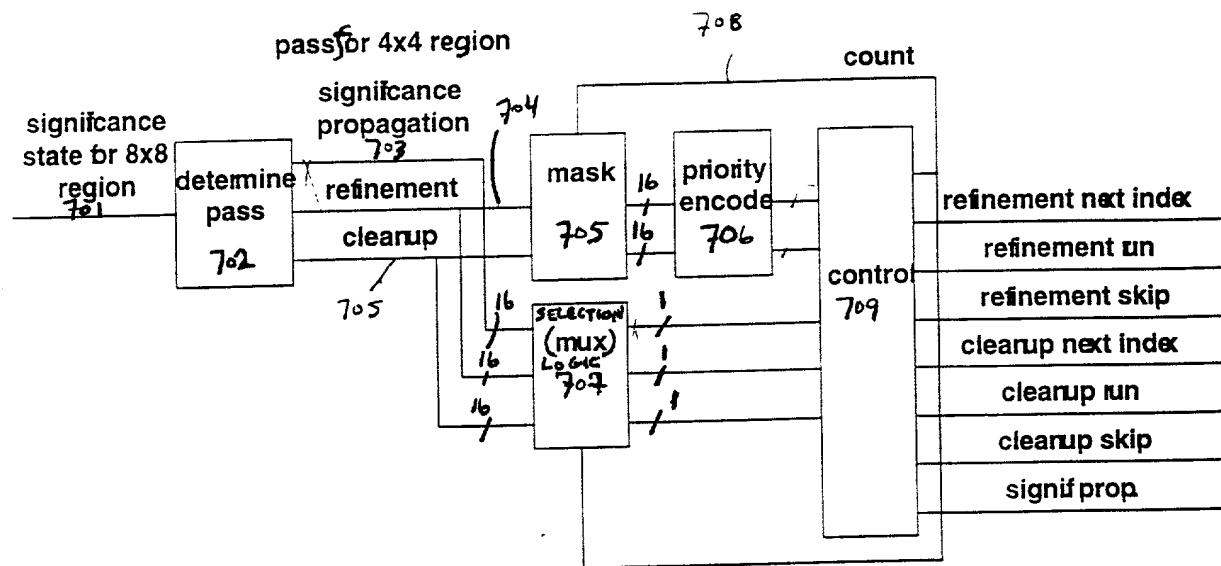


Figure 7

SP	SP	SP	SP
C	C	C	C
SP	SP	SP	SP
SP	R	R	SP

SP = significance propagation  
 C = cleanup  
 R = refinement

SP pass: 10\*2 for SP pass coefficients  
 6 for C and R pass coefficients  
 C pass: 4\*2 for C pass coefficients  
 R pass: 2 for R pass  
 total: 36 clocks = 2.25 clocks per coefficient

Figure 8

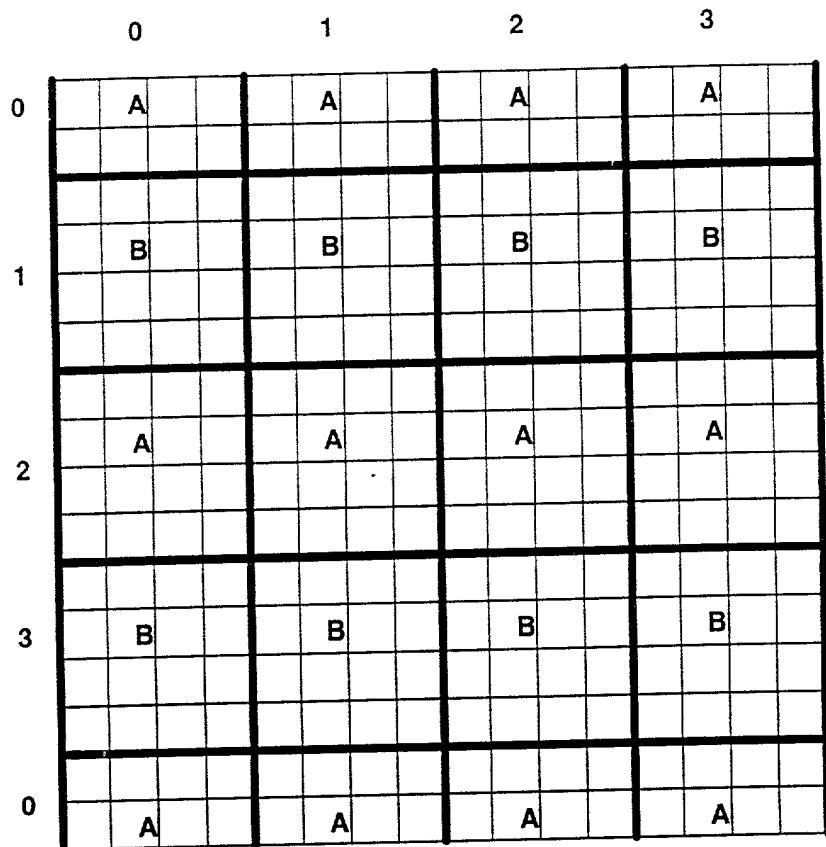


Figure 9

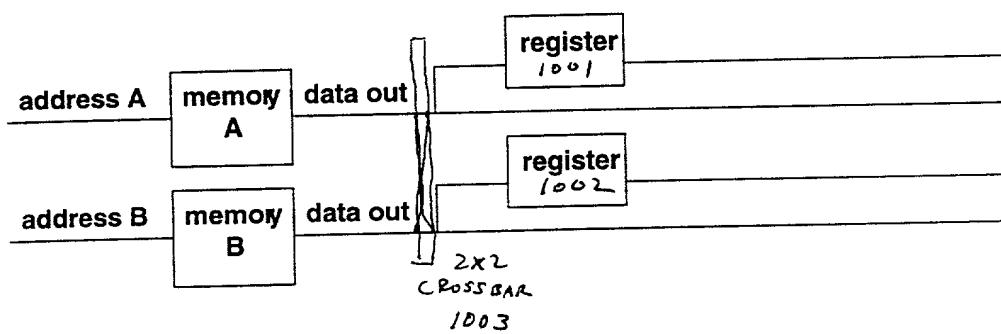


Figure 10

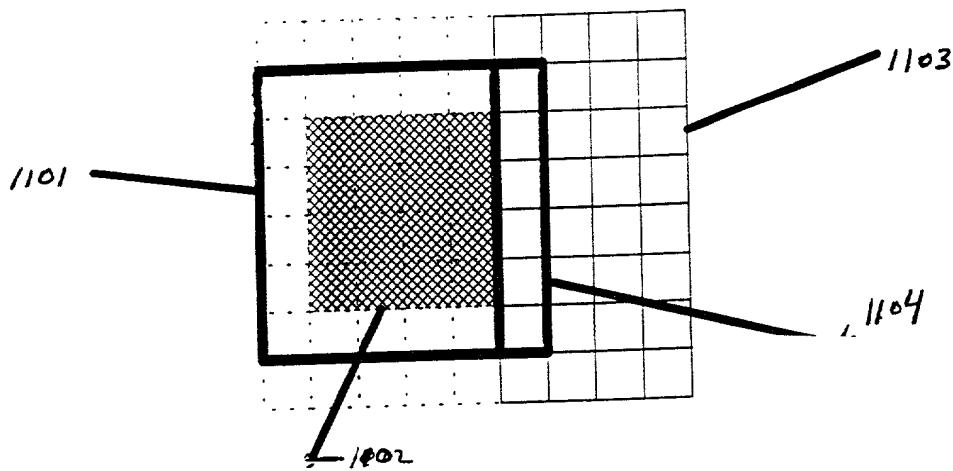


Figure 11

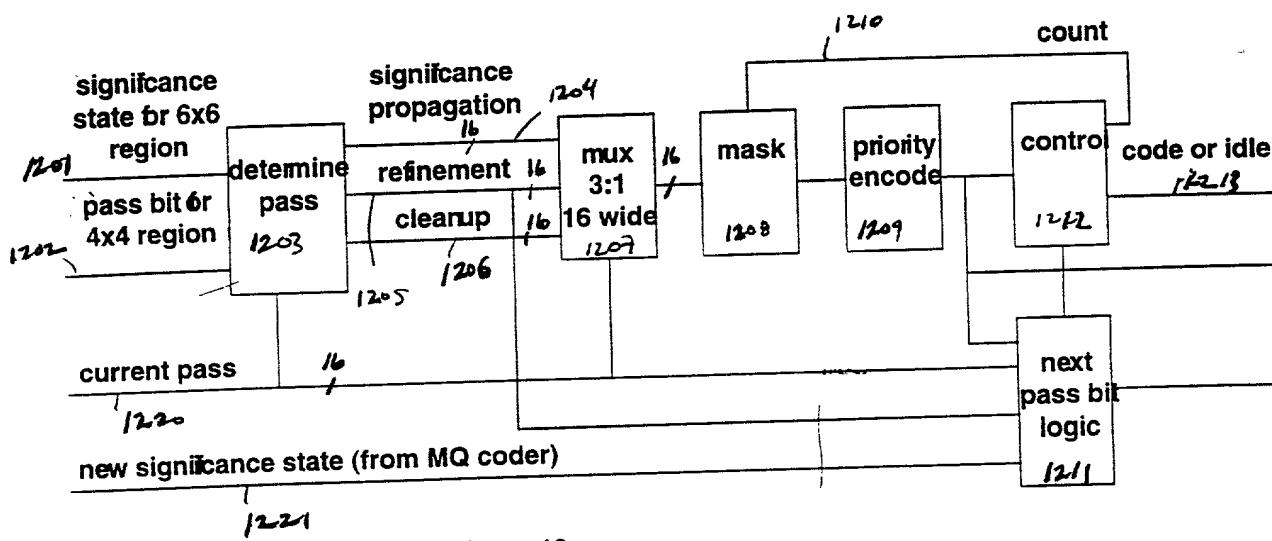


Figure 12

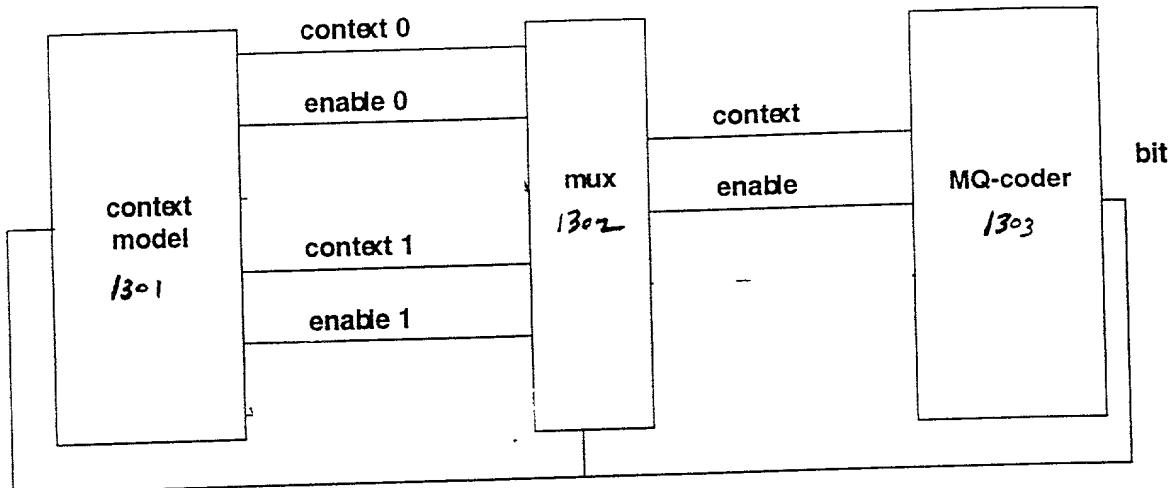


Figure 13

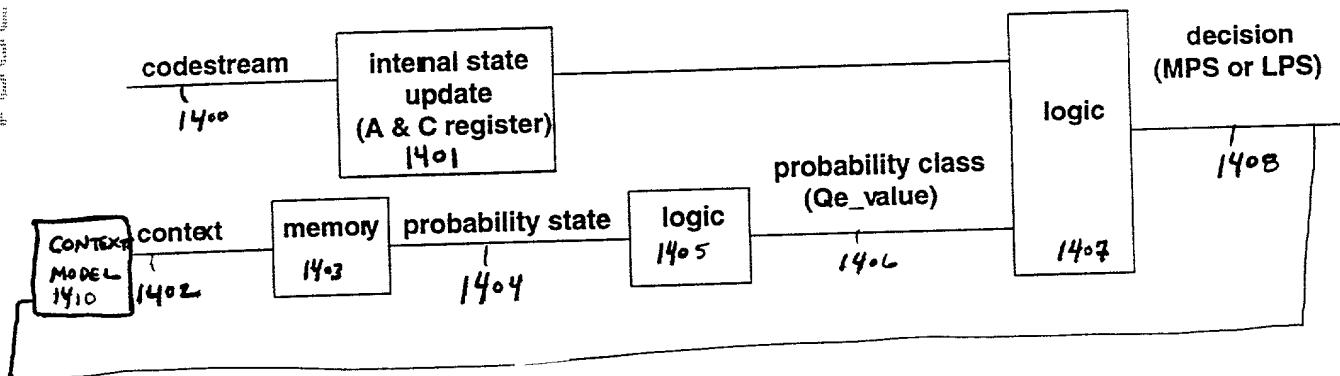


Figure 14A

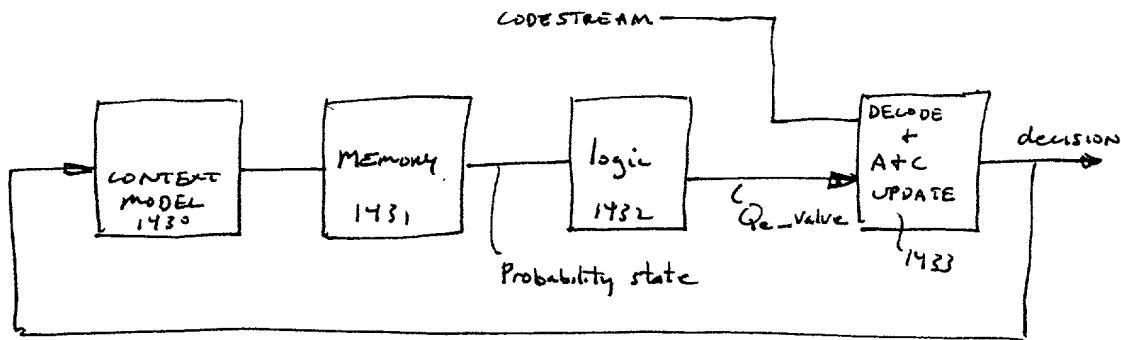


Figure 14B

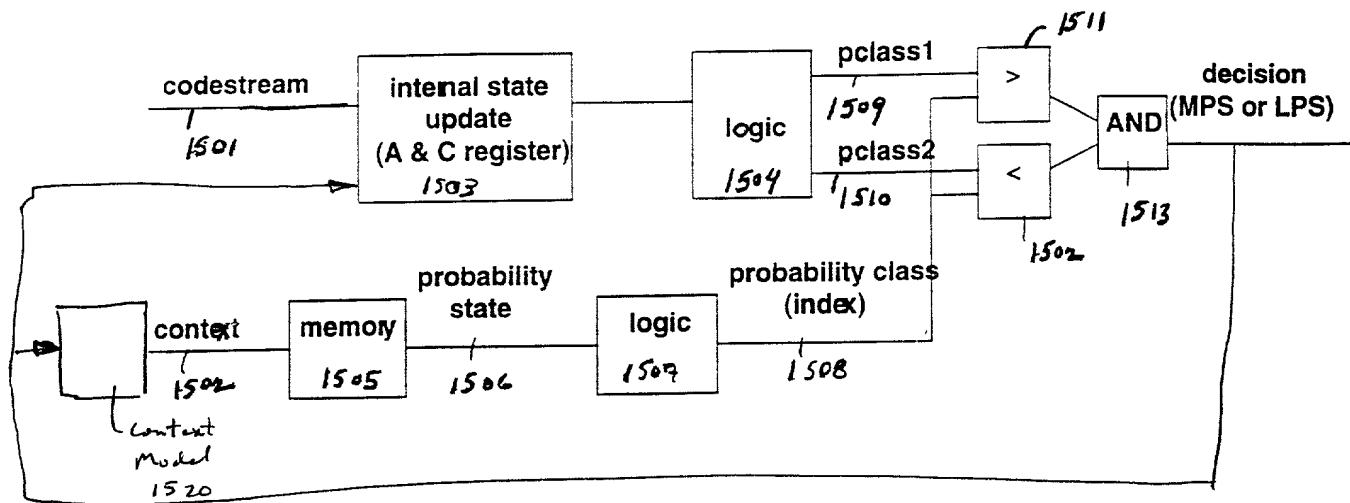


Figure 15

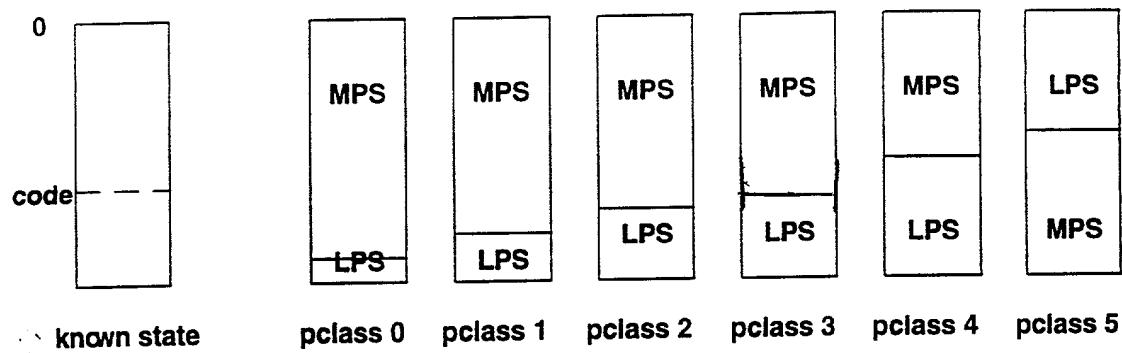


Figure 16A

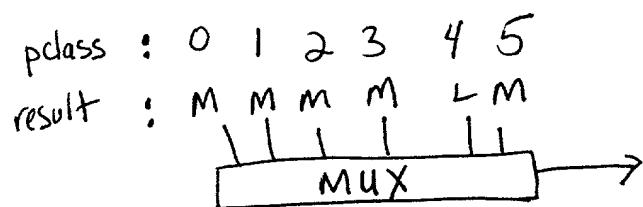
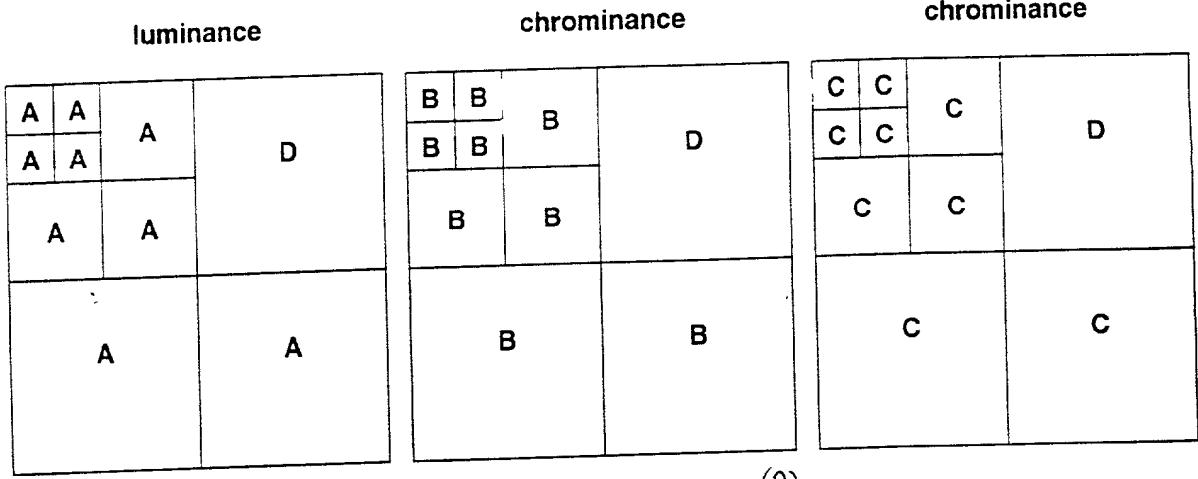


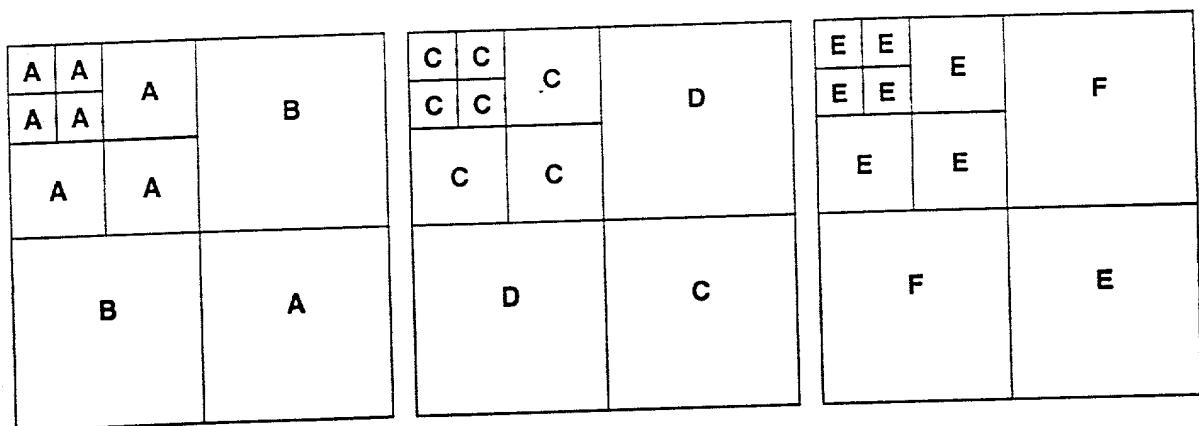
Figure 16B

<b>5MPS</b>
<b>4 MPS</b>
<b>3 MPS</b>
<b>2 MPS</b>
<b>1 MPS</b>
<b>LPS</b>

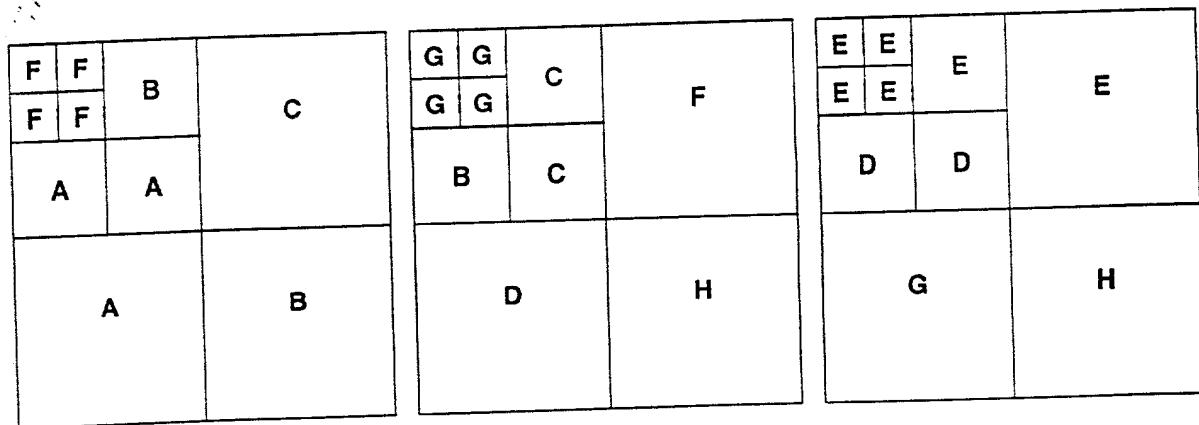
**Figure 17**



(A)

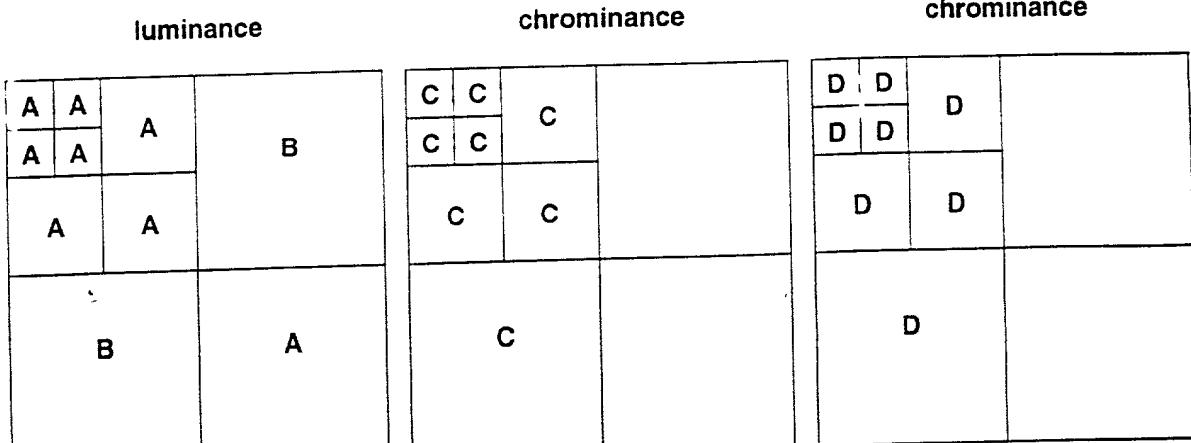


(B)

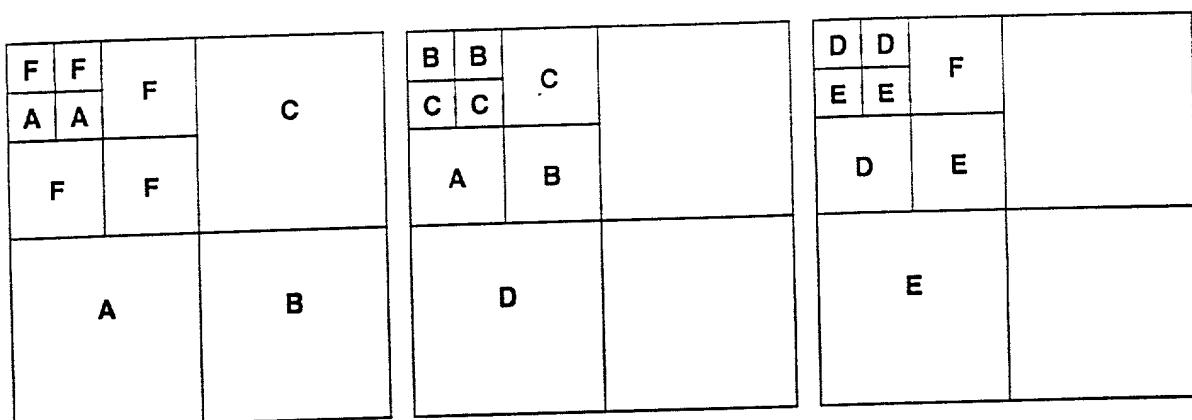


(c)

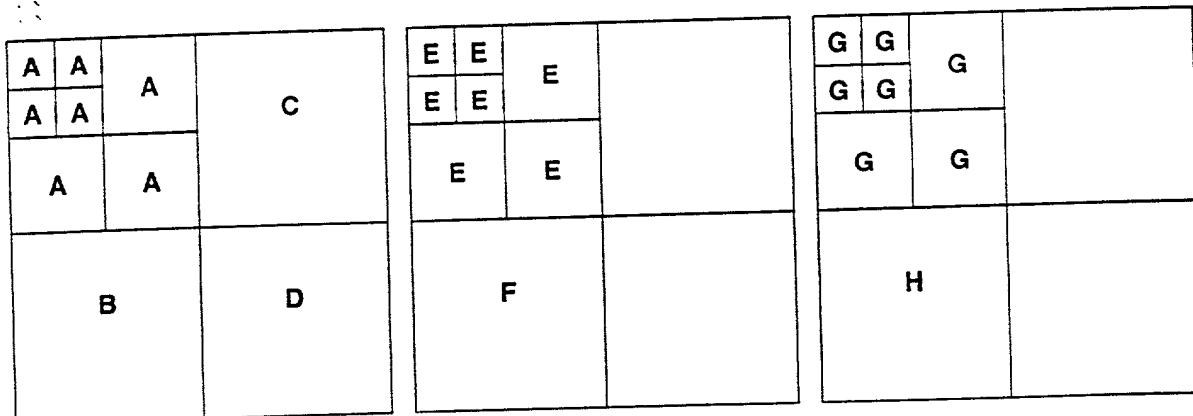
Figure 18



(A)

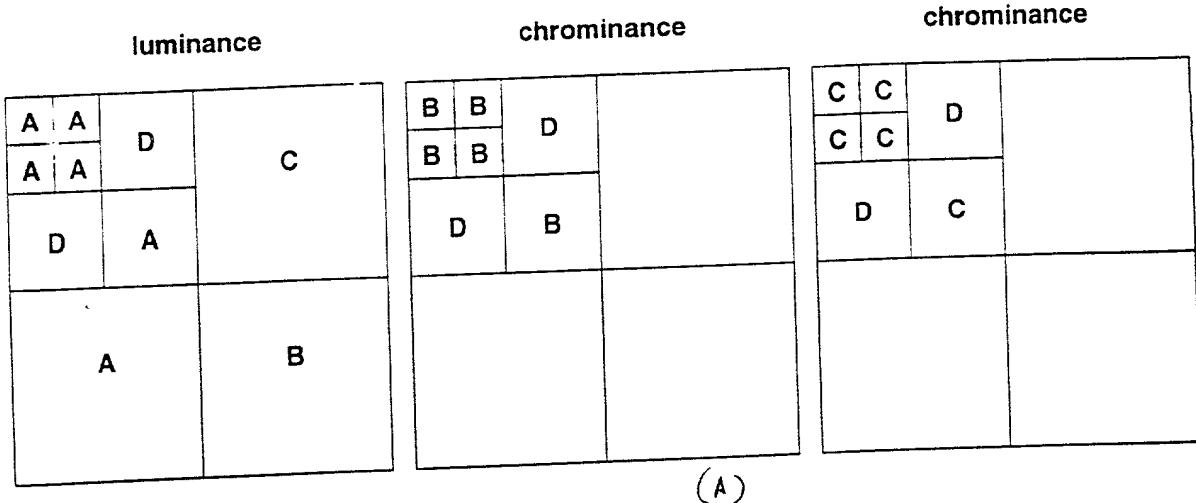


(8)

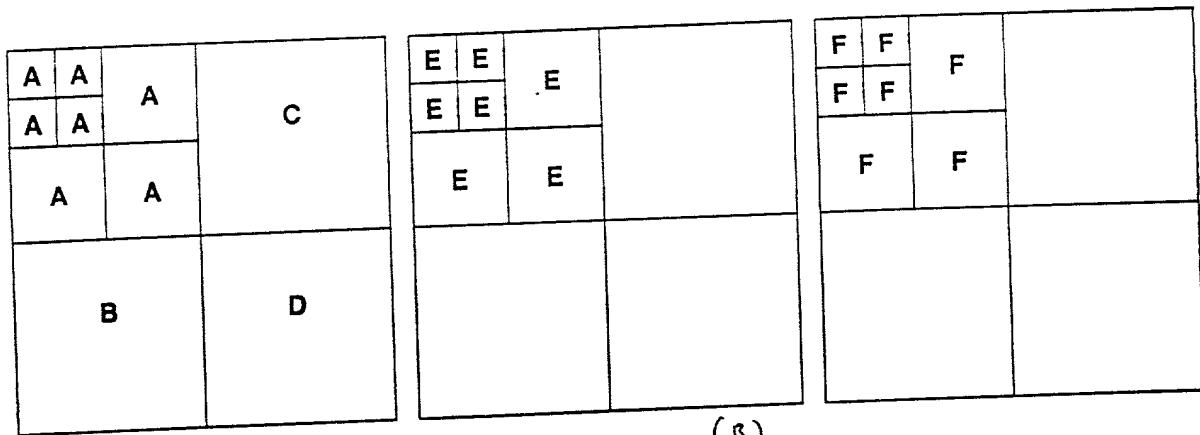


(c)

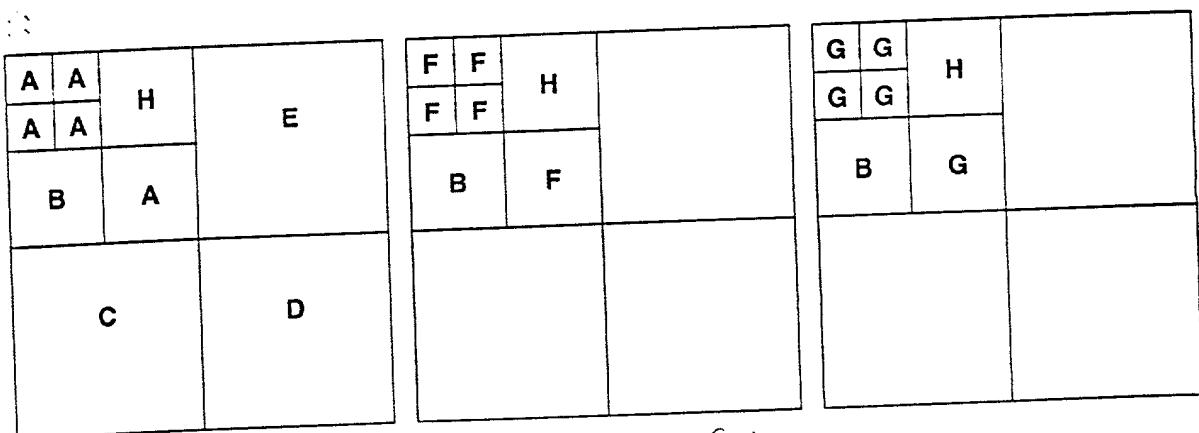
Figure 19



(A)



(B)



(4)

Figure 20

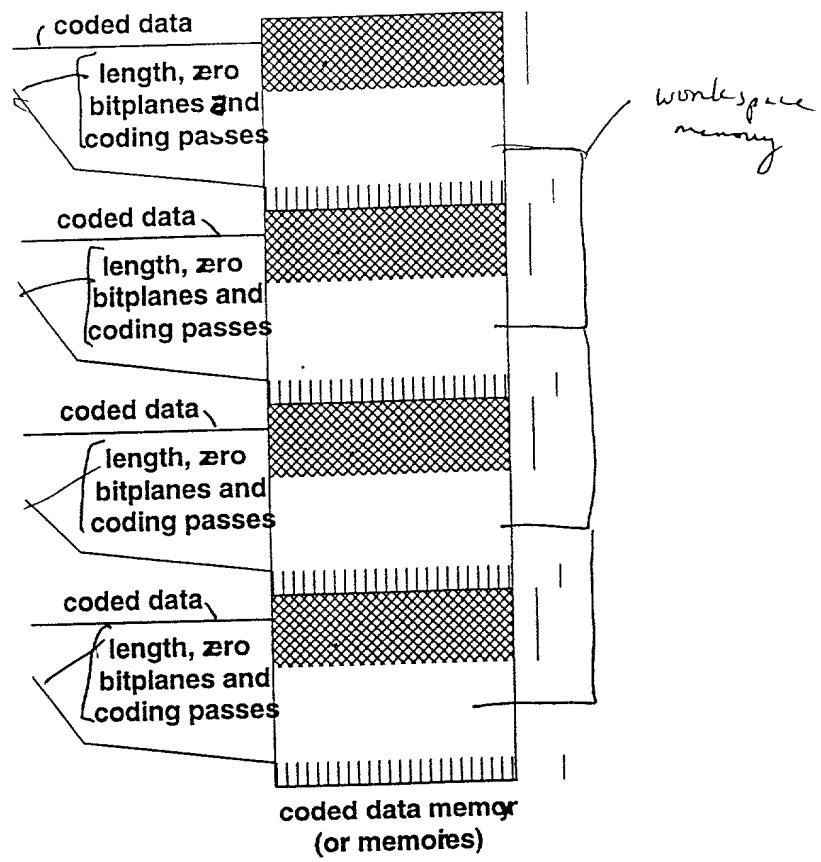


Figure 21

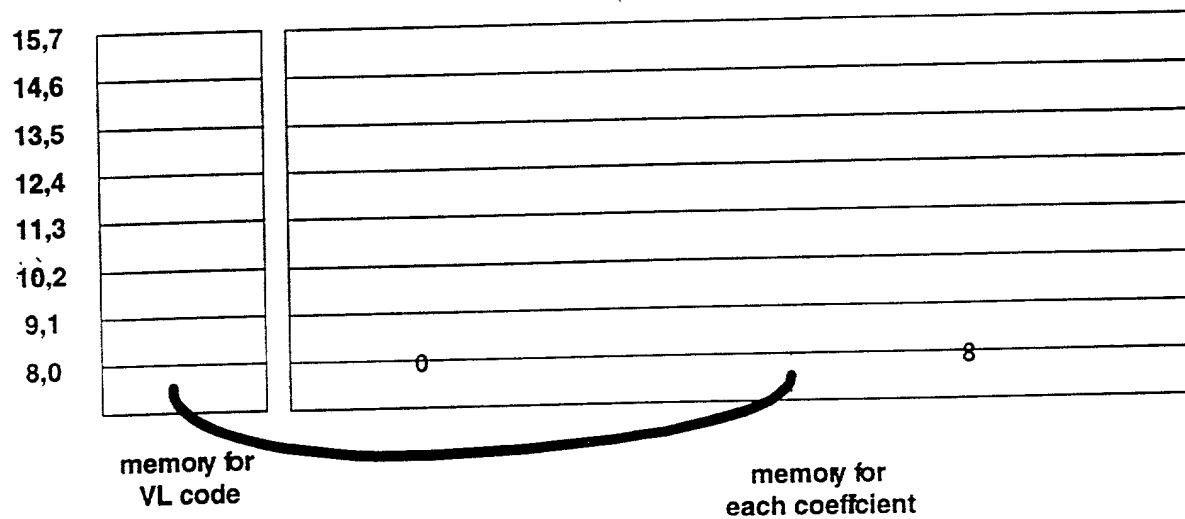
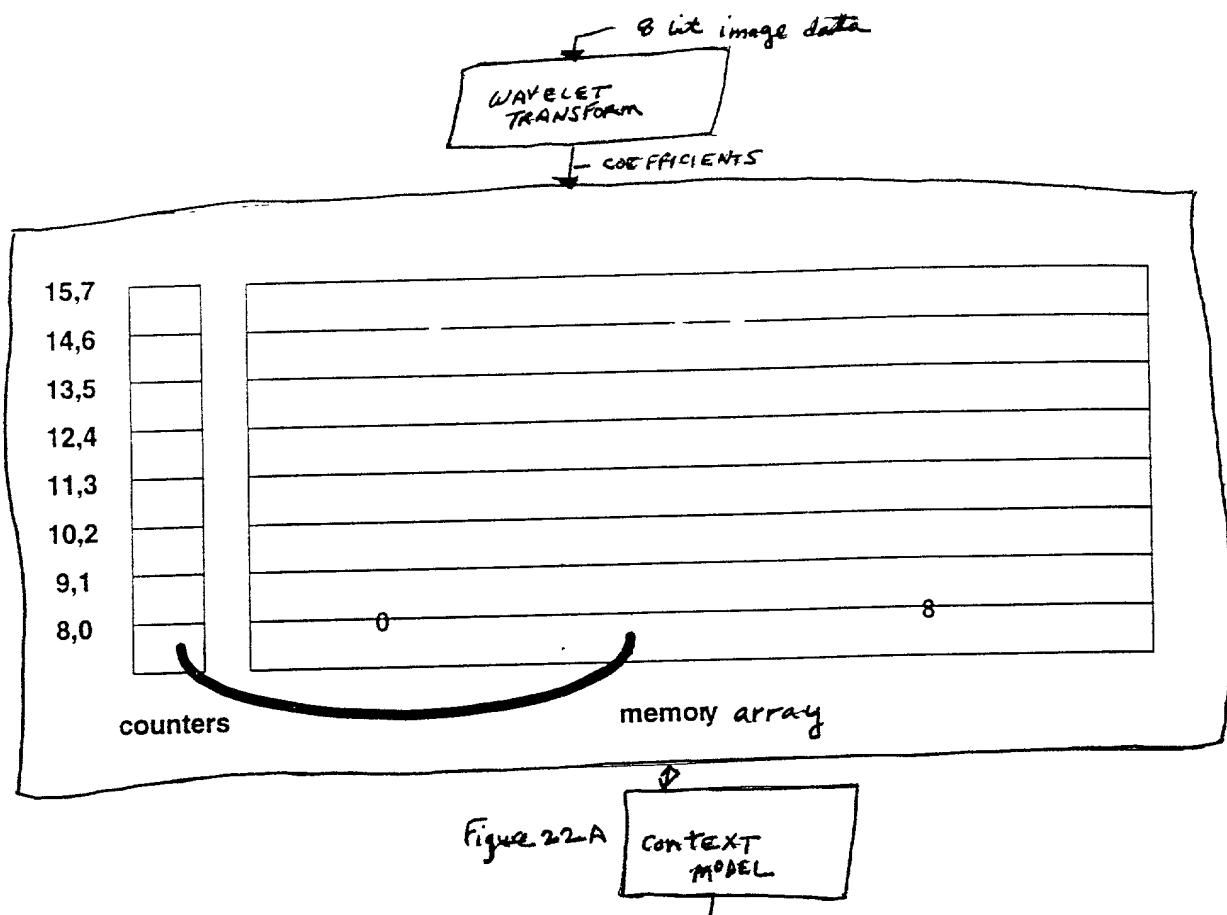


Figure 23

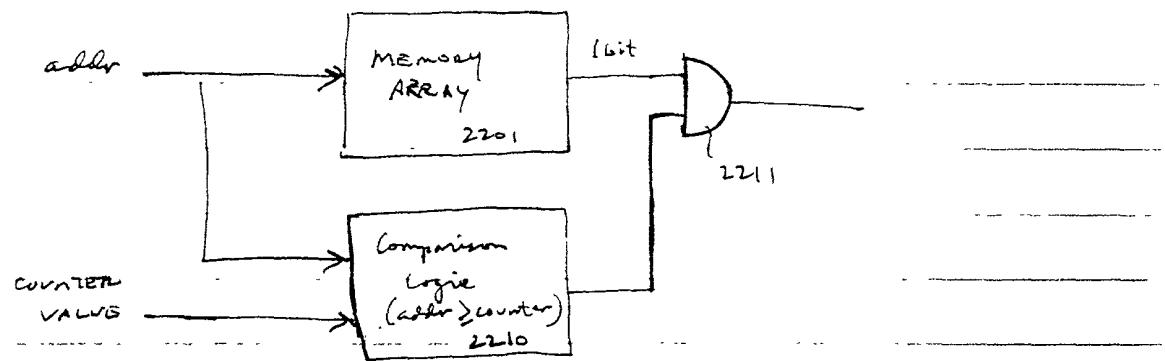
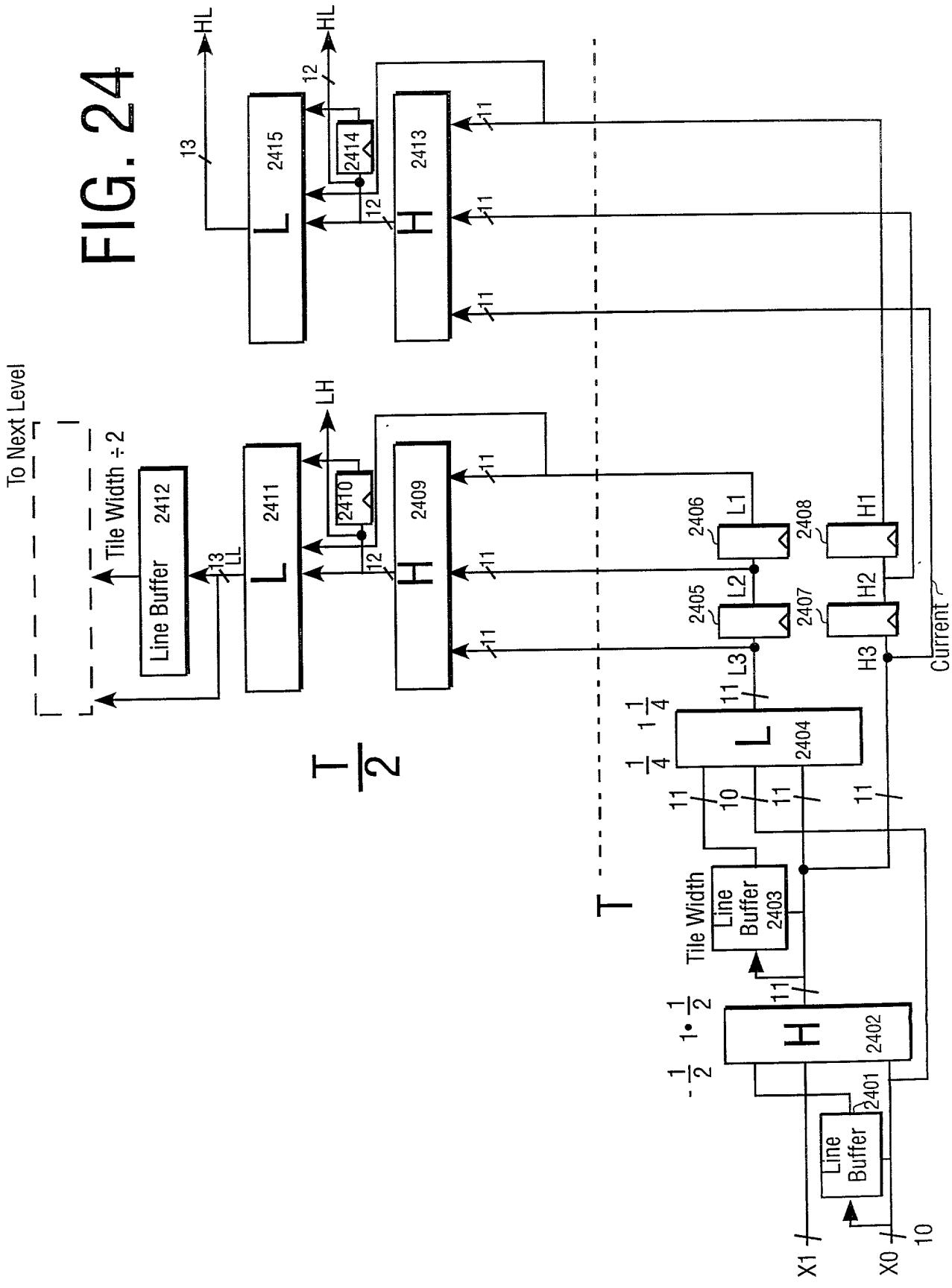


Figure 22B

FIG. 24



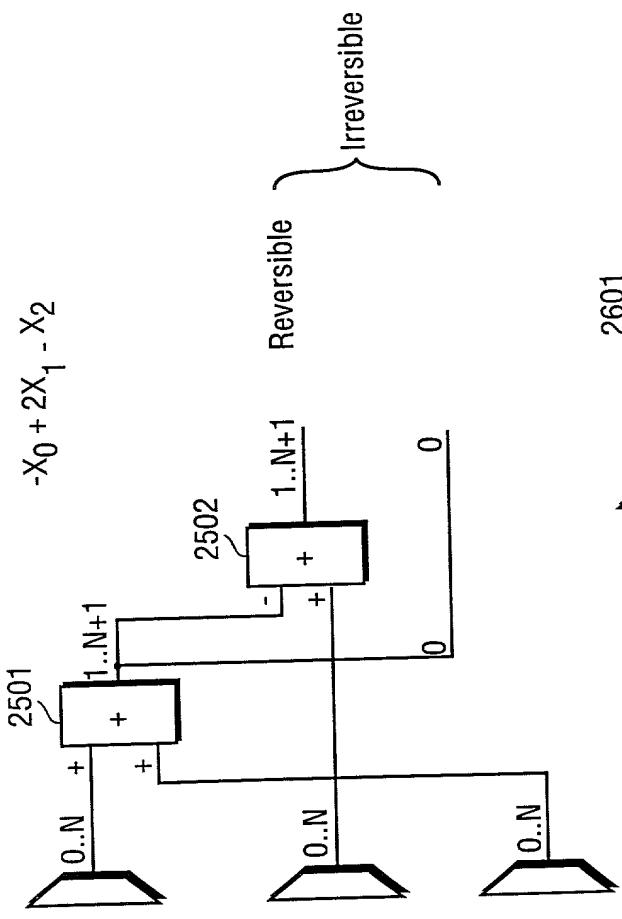


FIG. 25A

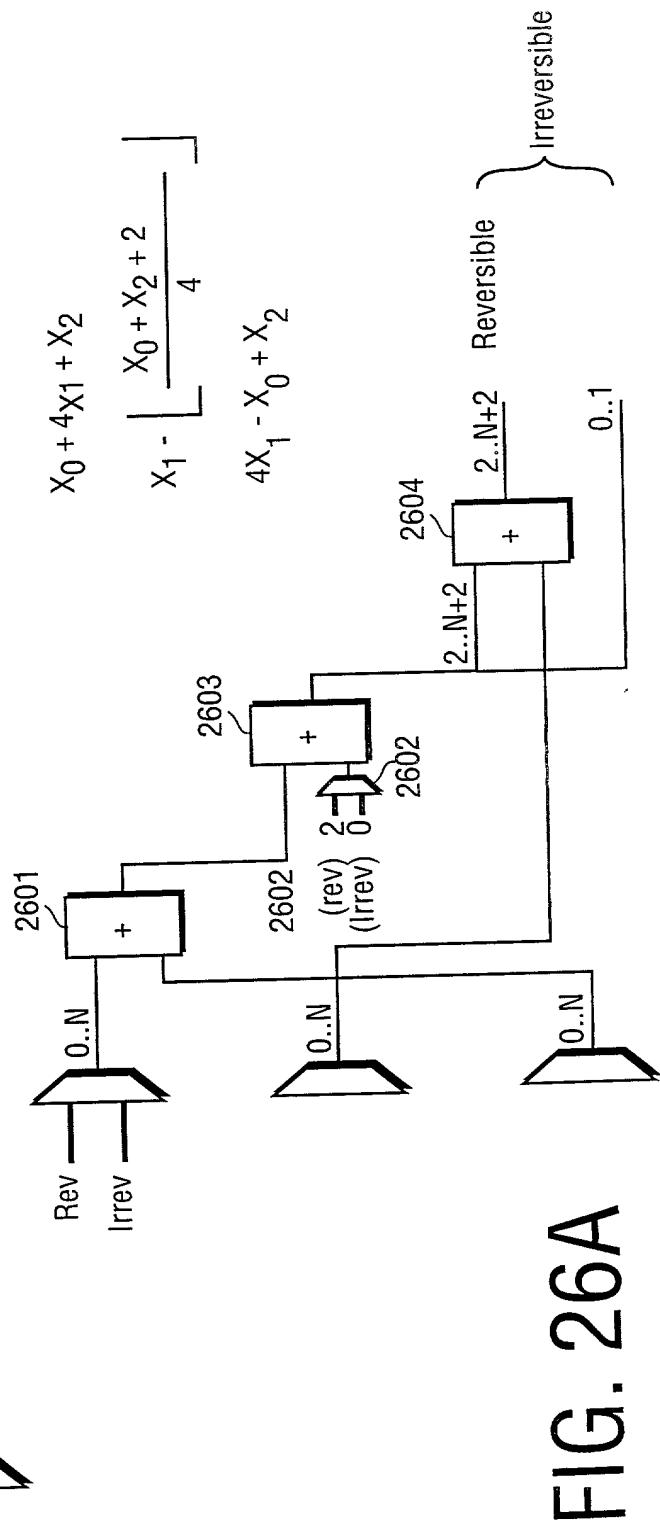


FIG. 26A

FIG. 25B

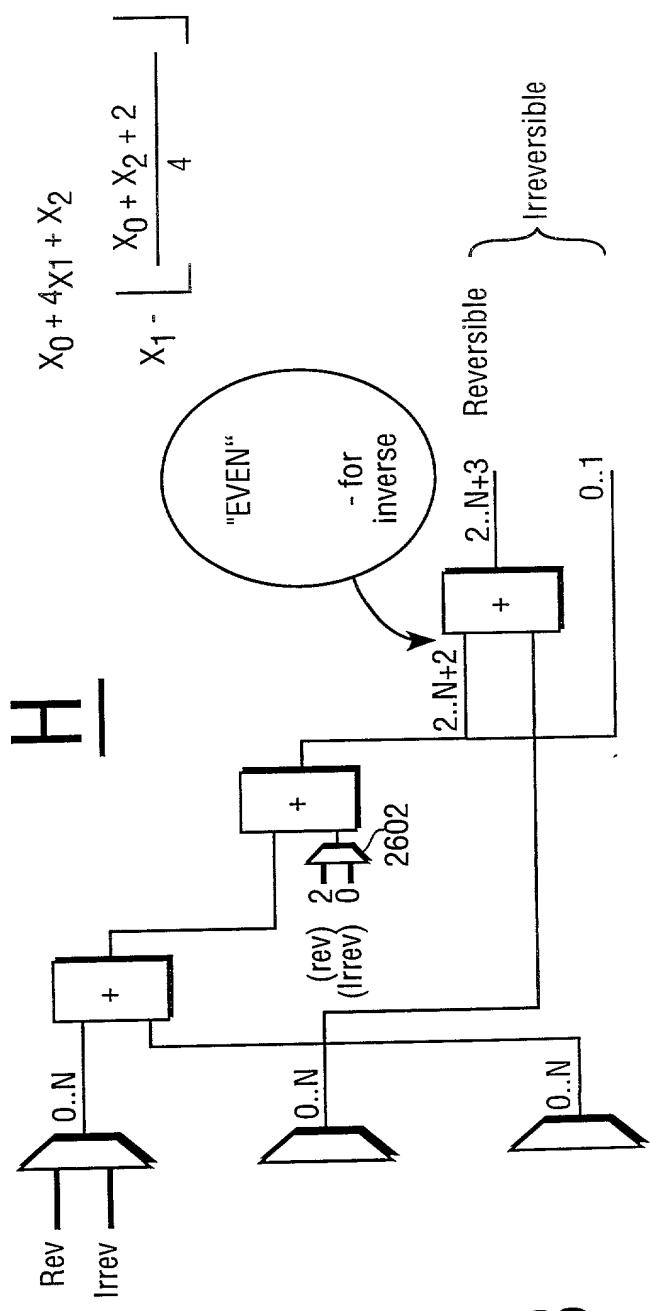
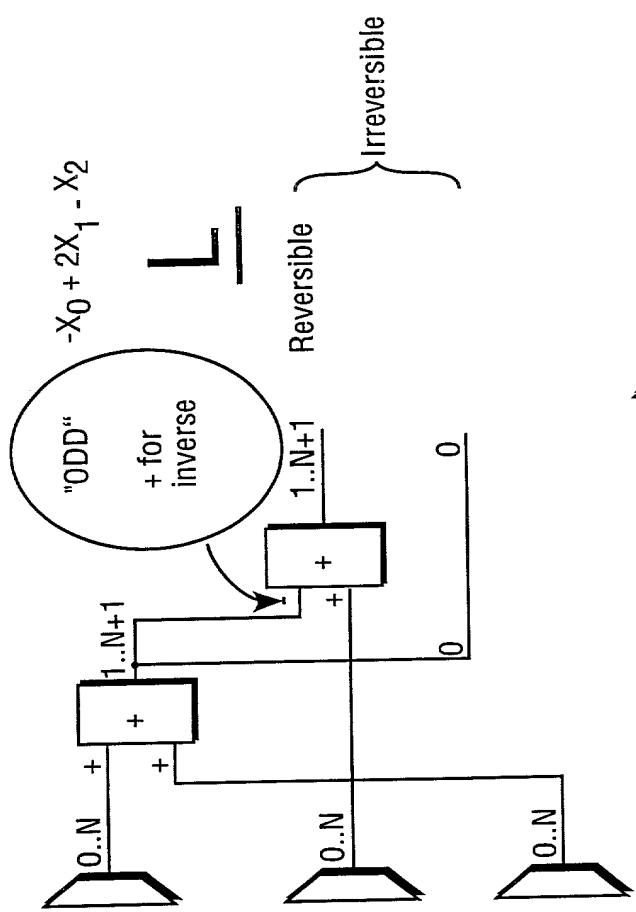
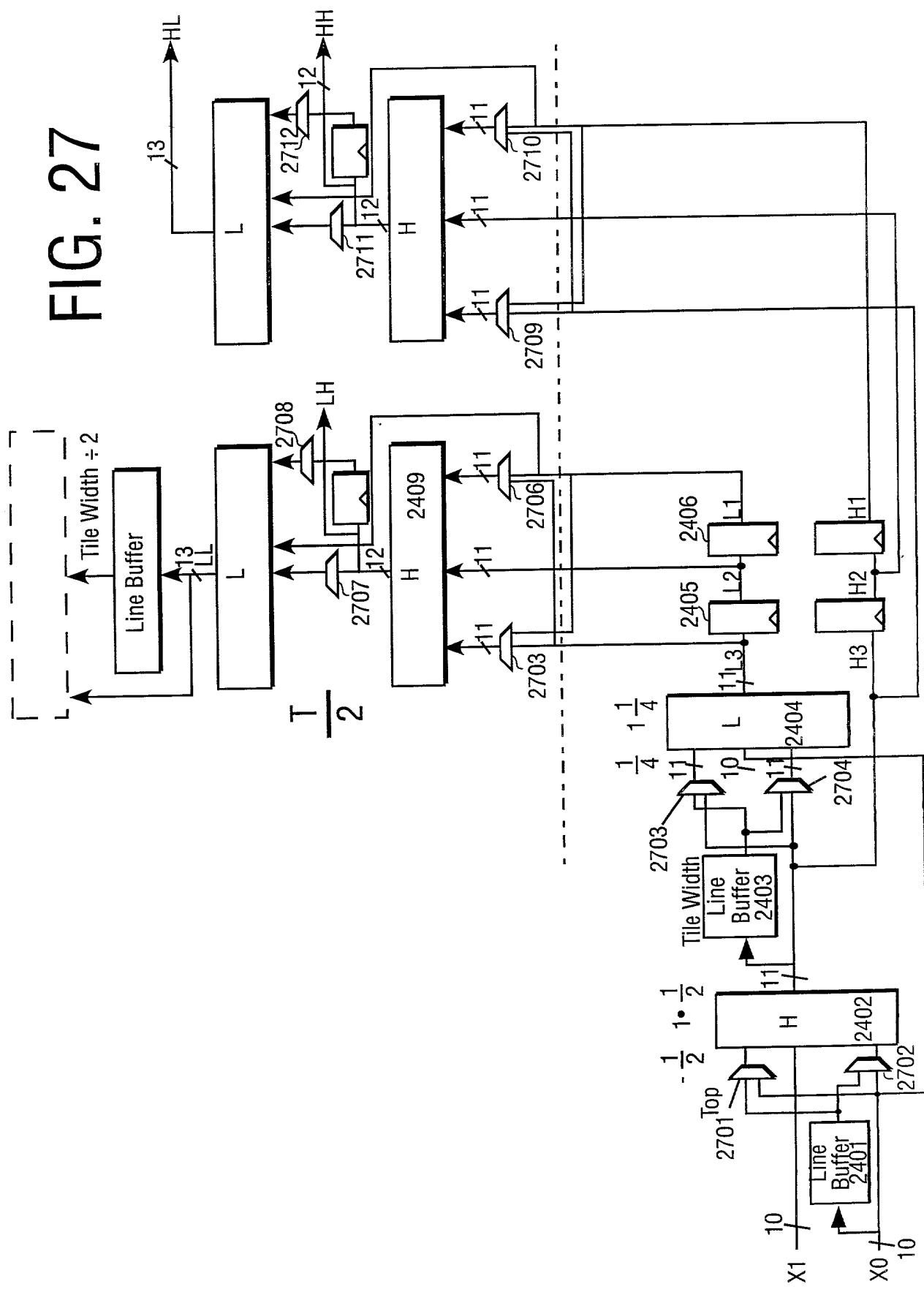
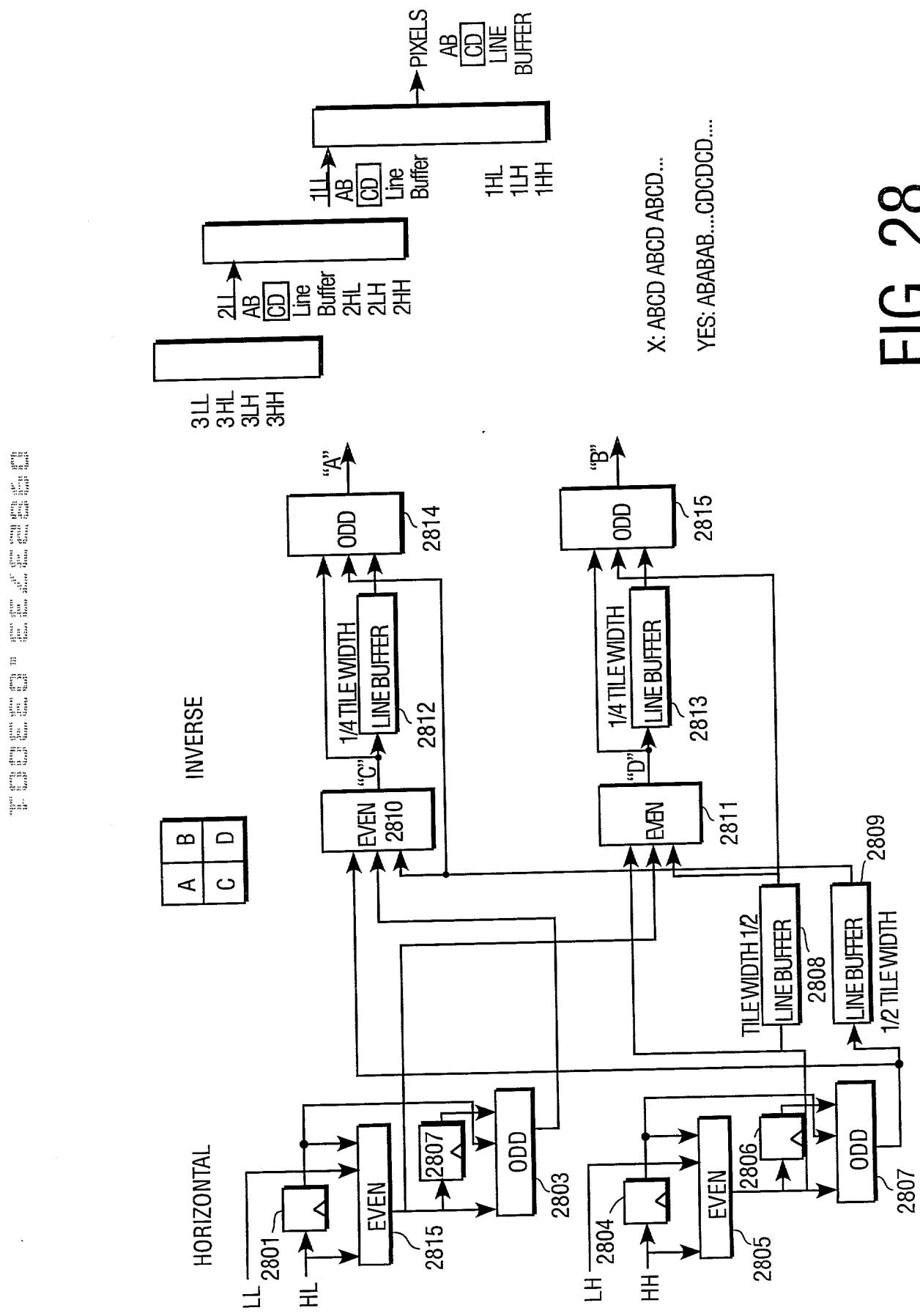


FIG. 26B

FIG. 27



# FIG. 28



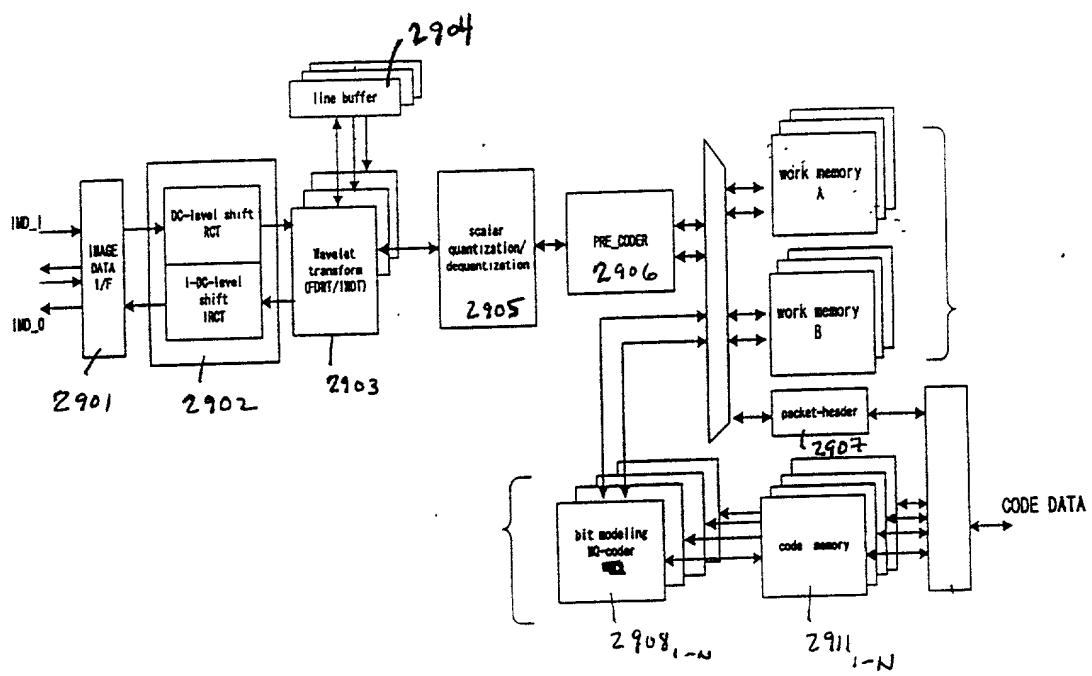


Figure 29

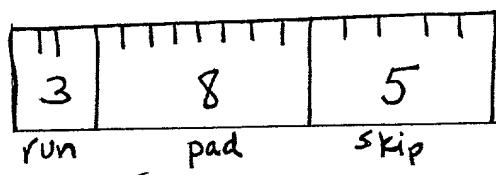


Figure 30

8x8 region

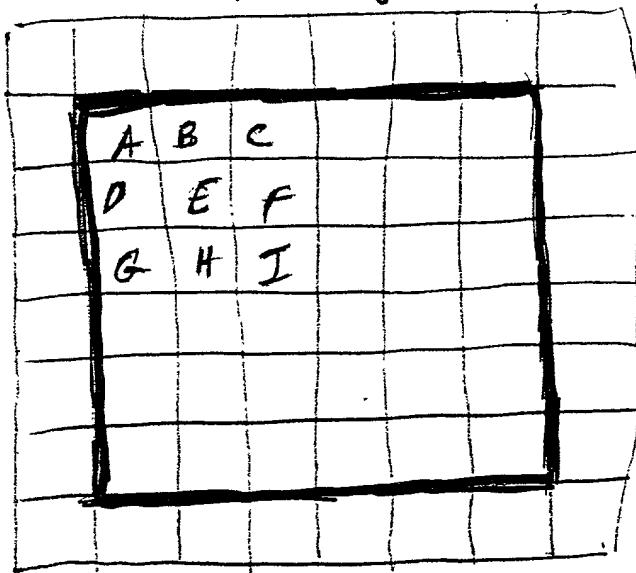


Figure 31

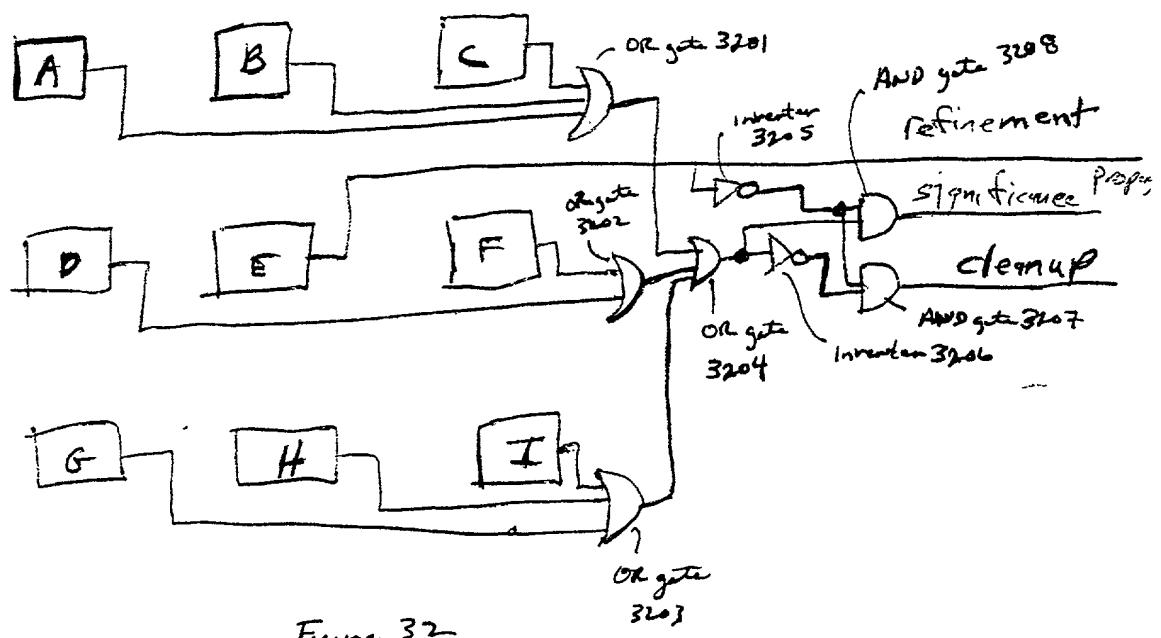


Figure 32